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## PATENT ABSTRACTS OF JAPAN

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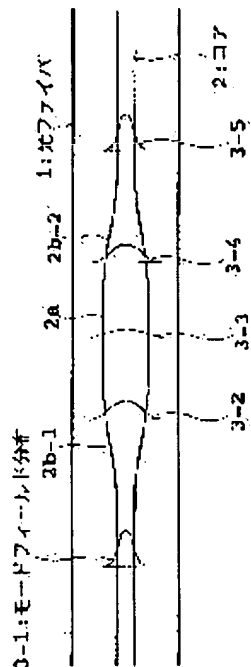
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(21)Application number : 2001-178982 (71)Applicant : NIPPON TELEGR &  
TELEPH CORP <NTT>

(22)Date of filing : 13.06.2001 (72)Inventor : ASAKAWA SHUICHIRO  
NAGASE AKIRA  
YANAGI SHUICHI

(54) HIGH-INTENSITY LIGHT TRANSMISSION SYSTEM, FIBER FUSE PROHIBITING MEMBER USED FOR HIGH-INTENSITY LIGHT TRANSMISSION SYSTEM AND METHOD OF MANUFACTURING FIBER FUSE PROHIBITING MEMBER



(57)Abstract:

PROBLEM TO BE SOLVED: To prevent the failure of an optical fiber transmission path and system components in case of the occurrence of fiber fuse.

SOLUTION: The same optical fiber of the high-intensity light transmission system having the optical fiber 1 for transmitting the light of high intensity of about  $\geq 500$  mW has a core 2 which is partially expanded in its sectional area. Even if, therefore, the fiber fuse happened as a result that the connection error of an optical connector and the rupture or the like of the optical fiber in which many

light signals rising to high intensity in total are transmitted and exciting light for optical amplification of high intensity are transmitted, the damage on the optical devices and optical parts constituting the transmission system by the same can be prevented.

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